

What is claimed is:

1. A vehicle regenerative braking apparatus comprising:
a generator driven by an engine and performing vehicle braking by generation of regenerative power during vehicle braking;

a battery charged by the regenerative power;

a plurality of electrical loads, wherein the loads are supplied power by the generator and the battery; and

a load control apparatus controlling the electrical loads, wherein the load control apparatus performs one of calculation, detection, and anticipation of a generation of excess power, wherein the excess power is the regenerative power that exceeds a battery-absorbable maximum charge amount, and the load control apparatus determines an excess power consumption load from the plurality of electrical loads to have excess power absorbed according to one of a calculated value, a detected value, and an anticipated value of the excess power and the excess power absorption capability of the electrical loads before or after generation of the excess power, and activating the excess power consumption load corresponding to the size of the excess power when generation of the excess power has been one of calculated, detected, and anticipated.

2. The vehicle regenerative braking apparatus according to claim 1, wherein

the load control apparatus completes determination of the excess power consumption load per each calculated value of the

excess power or for a predicted value of the excess power before actual generation thereof.

3. The vehicle regenerative braking apparatus according to claim 1, wherein

with respect to a combination of the plurality of excess power consumption loads selected from the plurality of electrical loads, the load control apparatus determines the combination of excess power consumption loads to absorb the excess power corresponding to one of the calculated value, the detected value, and the anticipated value of the excess power and the total of excess power absorbability of the combination, and activates the combination of excess power consumption loads corresponding to the size of the excess power when generation of excess power has been one of calculated, detected, and anticipated.

4. The vehicle regenerative braking apparatus according to claim 1, wherein

the load control apparatus stores in memory groups of the electrical loads which are selectable from the total vehicle electrical loads as the excess power consumption loads as selectable loads, a single or combination of the excess power consumption loads being selected and decided upon from the selectable loads.

5. The vehicle regenerative braking apparatus according

to claim 1, wherein

the load control apparatus delays shutoff of electrical loads among the electrical loads that are presently in activation and can continue to be in activation, when generation of the excess power is one of calculated, detected, and anticipated.

6. The vehicle regenerative braking apparatus according to claim 1, wherein

with respect to the load control apparatus, when the electrical loads in activation as excess power consumption loads are shut off by manual operation, priority is given to these electrical loads at the next determination event of excess power consumption loads.

7. The vehicle regenerative braking apparatus according to claim 1, wherein

the load control apparatus performs the determination of the excess power consumption loads so that the total of the increase amounts of power to be consumed, of one or a combination of the electrical loads, are more than the excess power and below the value of a predetermined margin added to the excess power.

8. The vehicle regenerative braking apparatus according to claim 1, wherein

the load control apparatus excludes the electrical loads that are presently in activation from consideration when

determining the excess power consumption loads.

9. A vehicle regenerative braking apparatus comprising:
a generator driven by an engine and performing vehicle braking by generation of regenerative power during vehicle braking;

a battery charged by the regenerative power;

a plurality of electrical loads supplied from the generator and the battery; and

a load control apparatus that controls the electrical loads, the load control apparatus performing one of calculation, detection, and anticipation of a generation of excess power, wherein the excess power is the regenerative power that exceeds a battery-absorbable maximum charge amount, and delaying shutoff of electrical loads maintainable in activation from among the electrical loads presently activated when performing one of calculation, detection, and anticipation of the generation of the excess power.